



National
Aeronautics and
Space
Administration

EV088615307US

Patent Application

ARC-14743-1
(NASA Case No.)

Letter Transmitting Patent Application

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

THE COMMISSIONER OF PATENTS AND TRADEMARKS
Washington, DC 20231

Sir:

Transmitted herewith for filing is the Patent Application of:

Applicant:

Inventor(s): David A. Stewart, Daniel B. Leiser, Robert R. DiFiore, Victor W. Katvala

Entitled: High-Efficiency Tantalum-Based Ceramic Composite Structures

Enclosed are:

- ☒ Specification and claims
- ☒ Declaration
- ☐ Assignment of the invention to the National Aeronautics and Space Administration
- ☐ License of the invention to the National Aeronautics and Space Administration
- ☐ Application Data Sheet
- ☐ Preliminary Amendment
- ☐ Information Disclosure Statement
- ☒ Nonpublication Request and Certification (PTO/SB/35 or equivalent)
- ☐ International application under the PCT (see PCT/RO/101,XII checklist)

☒ 9 sheets of drawing
☒ Power of Attorney

The fee has been calculated as shown below:

FOR (1)	CLAIMS FILED NUMBER		RATE (4)	FEE (5)
	PAID FOR (2)	EXTRA (3)		
TOTAL CLAIMS 46	20	26	X 18.00	\$468.00
INDEPENDENT CLAIMS 3	3	0	X 86.00	\$0.00
BASIC FEE (Minimum amount required)				\$770.00
TOTAL FILING FEE				\$1,238.00

Please charge our Deposit Account No. 14-0116 in the amount shown as the total filing fee. The Commissioner is hereby authorized to charge an additional fee which may be required to effect the filing of this application under 37 CFR 1.16, or credit any overpayment to Deposit Account No. 14-0116.

14 January 2004
(Date)

John Schupler
(Attorney of Record) (Reg. No.)

No. 26994

NOTE: This form is to be used when filing a new or original application.

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011404

02570 U.S. PTO

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ARC-14743-1

PATENT

Express Mail Label No.: EV088615307US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re new application of: David A. Stewart, Daniel B. Leiser, Robert R. DiFiore,
Victor W. Katvala

Filed: Herewith

For: "High-Efficiency Tantalum-Based Ceramic Composite Structures"

Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

EXPRESS MAIL CERTIFICATE

"Express Mail" label number: EV088615307US

Date of Deposit: January 14, 2004

I here by certify that the attached correspondence comprising:

One Return Post Card
Certificate of Mailing (1 page)
Transmittal Letter/Fee Sheet (1 page, in duplicate)
Specification & Claims (21 pages, including abstract)
Drawings (9 sheets, including figs. 1, 2A-B, 3A-B, 4A-C, 5, 6A-B, and 7-8)
IDS PTO Form 1449 citing 6 references (1 page)
One Copy of Each Reference Cited on Form 1449
Executed Declaration/Power of Attorney (2 pages)
Nonpublication Request (1 page)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Vickie L. Kent
name of person depositing in mail

Vickie L. Kent 01/14/04
signature date

EN08861530745

PTO/SB/35 (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U. S. DEPARTMENT OF COMMERCE

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NONPUBLICATION REQUEST UNDER 35 U.S.C. 122(b)(2)(B)(i)	First Named Inventor	David A. Stewart, et al.
	Title	High Efficiency Tantalum-Based Ceramic Composite Structures
	Attorney Docket Number	ARC-14743-1

I hereby certify that the invention disclosed in the attached application **has not and will not be** the subject of an application filed in another country, or under a multilateral agreement, that requires publication at eighteen months after filing.

I hereby request that the attached application not be published under 35 U.S.C. 122(b).

14 January 2004
Date

John F. Schipper
Signature

(650)604-0887
Telephone number

John F. Schipper 26,994
Typed or printed name

This request must be signed in compliance with 37 CFR 1.33(b) and submitted with the application **upon filing**.

Applicant may rescind this nonpublication request at any time. If applicant rescinds a request that an application not be published under 35 U.S.C. 122(b), the application will be scheduled for publication at eighteen months from the earliest claimed filing date for which a benefit is claimed.

If applicant subsequently files an application directed to the invention disclosed in the attached application in another country, or under a multilateral international agreement, that requires publication of applications eighteen months after filing, the applicant **must** notify the United States Patent and Trademark Office of such filing within forty-five (45) days after the date of the filing of such foreign or international application. **Failure to do so will result in abandonment of this application (35 U.S.C. 122(b)(2)(B)(iii)).**

This collection of information is required by 37 CFR 1.213(a). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 6 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.